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5	☑	☐	WO 9828007 A1	19980702		STABLE LIQUID INTERFERON FORMULATIONS				DIBIASI, MARY D , STAPLES, MARK	☐	☐	☐	☐	☐	☐
6	☑	☐	US 5766582 A	19980616		Stable, aqueous alfa interferon solution formulations	424/85.7			Yuen, Pui-Ho C. , et al.	☐	☐	☐	☐	☐	☐
7	☑	☐	US 5614387 A	19970325		Method of making stabilized enzyme compositions for nucleic	435/91.2	435/193 ; 435/6		Shen, Nancy L. L. , et al.	☐	☐	☐	☐	☐	☐
8	☑	☐	US 5602232 A	19970211		Method for producing metal-interferon-.alpha. crystals	530/351	530/419 ; 530/427		Reichert, Paul , et al.	☐	☐	☐	☐	☐	☐
9	☑	☐	US 5556771 A	19960917		Stabilized compositions of reverse transcriptase and RNA polymerase	435/91.2	435/193 ; 435/6		Shen, Nancy L. , et al.	☐	☐	☐	☐	☐	☐
10	☑	☐	US 5441734 A	19950815		Metal-interferon-alpha crystals	424/85.7	424/499 ; 424/85.1		Reichert, Paul , et al.	☐	☐	☐	☐	☐	☐
11	☑	☐	US 5196191 A	19930323		Temporal gamma-interferon administration for allergies	424/85.5			Jardieu, Paula M.	☐	☐	☐	☐	☐	☐
12	☑	☐	US 5151265 A	19920929		Gamma interferon formulation	424/85.5	435/69.51 ; 530/351		Hwang-Felgner, Jiin-Yu , et al.	☐	☐	☐	☐	☐	☐
13	☑	☐	US 5151265 A	19920929		Gamma interferon formulation				HWANG-FELGNER, JIIN-YU	☐	☐	☐	☐	☐	☐
14	☑	☐	US 5112605 A	19920512		Temporal gamma-interferon administration for allergies	424/85.5			Jardieu, Paula	☐	☐	☐	☐	☐	☐
15	☑	☐	US 5004605 A	19910402		Low pH pharmaceutical compositions of recombinant	424/85.6	530/351		Hershenson, Susan , et al.	☐	☐	☐	☐	☐	☐
16	☑	☐	US 4961969 A	19901009		Process for recovering microbially produced interferon-.beta.	435/69.51	424/85.6 ; 530/351		Hershenson, Susan , et al.	☐	☐	☐	☐	☐	☐
17	☑	☐	US 4851220 A	19890725		Stable oleaginous gel	424/85.7	514/784 ; 514/937		Yim, Zachary , et al.	☐	☐	☐	☐	☐	☐
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19	☑	☐	WO 8904177 A1	19890518		GAMMA INTERFERON FORMULATION				HWANG-FELGNER, JIIN-YU	☐	☐	☐	☐	☐	☐
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21	☑	☐	WO 8902750 A1	19890406		PHARMACEUTICAL COMPOSITIONS OF				TAFORO, TERRANCE , THOMSON, JODY	☐	☐	☐	☐	☐	☐

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Isolation, purification and biochemical characterization of human placental interferons by tandem high-performance affinity chromatography.

Aboagye-Mathiesen G, Toth FD, Dalsgaard AM, Petersen PM, Zachar V, Ebbesen P.

Department of Virus and Cancer, Danish Cancer Society, Aarhus.

Human placental trophoblasts, fibroblasts and the trophoblast-derived malignant cell JAR are potent producers of interferons (IFNs) when stimulated with Sendai virus. The three cell lines produced different levels and compositions of IFN-alpha subtypes and IFN-beta. Anti-IFN globulins, Cibacron Blue F3GA and Concanavalin A were covalently immobilized on pressure-stable, macroporous polymeric matrices derivatized with vinyl sulphone (HEMA-BIO 1000 VS and HEMA 1000 VS). These supports were packed in biocompatible PEEK columns and were coupled with switching valves, to develop a tandem high-performance affinity chromatographic (HPAC) method for the isolation, purification and biochemical characterization of the IFNs produced in Sendai virus-stimulated human placental trophoblasts, fibroblasts and trophoblast-derived malignant cell, JAR, cultures. Silver-stained SDS-PAGE and gel densitometric analysis revealed the purity of the purified proteins to be between 94 and 98%. Specific activities of the purified IFNs ranged between 0.37-2.76 x 10(8) IU/mg of protein with cumulative recoveries between 90 and 92.2%. The purified IFN components exhibited quantitatively different antiviral activities in human and bovine cell lines. The utility of the tandem method for the purification and characterization of human type 1 IFNs produced from other cell lines are also discussed.

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